

## Title (en)

Cross-talk improvement for high frequency by frequency dependent effective capacity

## Title (de)

Nahendnebensprechverbesserung im Hochfrequenzbereich durch frequenzabhängige Effektivkapazität

## Title (fr)

Diaphonie à haute fréquence améliorée avec capacité effective dépendante à fréquence

## Publication

**EP 1596478 A3 20090819 (DE)**

## Application

**EP 05010147 A 20050510**

## Priority

US 84510404 A 20040514

## Abstract (en)

[origin: EP1596478A2] The connector plug [20] such as that used on a telephone line is inserted into a socket that has contacts [30] mounted on a circuit board [10]. The circuit board is a multilayer type having here substrates [S1-3] and metal layers [ML1-4]. Cross talk compensation circuits are built into two regions of the board to increase the compensation capacitance.

## IPC 8 full level

**H01R 24/00** (2006.01); **H01R 13/00** (2006.01); **H01R 24/58** (2011.01); **H03H 5/02** (2006.01); **H04B 3/32** (2006.01); **H05K 1/02** (2006.01); **H05K 1/16** (2006.01); **H05K 7/06** (2006.01); **H05K 1/00** (2006.01)

## CPC (source: EP KR US)

**H01R 13/6464** (2013.01 - EP); **H01R 13/6469** (2013.01 - EP US); **H05K 1/0228** (2013.01 - EP US); **H05K 1/165** (2013.01 - EP US); **H05K 3/46** (2013.01 - KR); **H01R 24/64** (2013.01 - EP US); **H05K 1/0298** (2013.01 - EP US); **H05K 1/162** (2013.01 - EP US); **H05K 2201/09236** (2013.01 - EP US); **H05K 2201/10189** (2013.01 - EP US); **Y10S 439/941** (2013.01 - EP US)

## Citation (search report)

- [X] US 6379157 B1 20020430 - CURRY CLIFF R [US], et al
- [XA] GB 2380334 A 20030402 - ITT MFG ENTERPRISES INC [US]
- [A] US 6168474 B1 20010102 - GERMAN MICHAEL GREGORY [US], et al

## Cited by

EP2091110A3; EP2137794A4; US8128436B2; WO2011025527A1; WO2009071142A3; US8681474B2; US8860531B2; US8016621B2; US9660385B2; EP2319138B1; US7967644B2; US8287316B2; US8496501B2; US8632368B2; US9692180B2; US9787015B2; US10135194B2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

## Designated extension state (EPC)

AL BA HR LV MK YU

## DOCDB simple family (publication)

**EP 1596478 A2 20051116; EP 1596478 A3 20090819; EP 1596478 B1 20130109;** AR 049173 A1 20060705; AU 2005201968 A1 20051201; AU 2005201968 B2 20090723; AU 2005201968 C1 20091217; BR PI0503131 A 20060110; CA 2507318 A1 20051114; CA 2507318 C 20150210; CN 1707859 A 20051214; CN 1707859 B 20110817; JP 2005328062 A 20051124; JP 4972291 B2 20120711; KR 101118729 B1 20120312; KR 20060047817 A 20060518; MX PA05005156 A 20051205; RU 2005114676 A 20061120; RU 2376732 C2 20091220; TW 200605449 A 20060201; TW I309491 B 20090501; US 2005254223 A1 20051117; US 2007133185 A1 20070614; US 2008268710 A1 20081030; US 7190594 B2 20070313; US 7410367 B2 20080812; US 7677930 B2 20100316

## DOCDB simple family (application)

**EP 05010147 A 20050510;** AR P050101967 A 20050513; AU 2005201968 A 20050510; BR PI0503131 A 20050512; CA 2507318 A 20050513; CN 200510071414 A 20050511; JP 2005140514 A 20050513; KR 20050039751 A 20050512; MX PA05005156 A 20050513; RU 2005114676 A 20050513; TW 94114067 A 20050502; US 16838708 A 20080707; US 65702407 A 20070124; US 84510404 A 20040514